IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Brod, S.	§	ART UNIT: 1761
	§	
FILED: October 8, 1997	§	
	§	EXAMINER:
SERIAL NO.: 08/946,710	§	Sayala, C.
	§	
FOR: Methods of Treating	§	DOCKET: D5716CIP4
Autoimmune Diseases Using	§	
Type One Interferons	§	

Assistant Commissioner of Patents
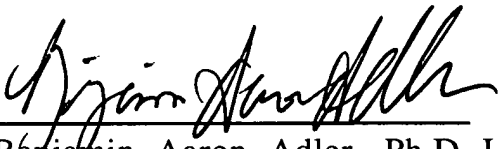**BOX AF**
Washington, D.C. 20231

COMPLIANCE OF REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Dear Sir:

Applicant provides a computer readable form of the Sequence Listing on the enclosed 3.5 inch disk and a paper copy thereof for the above-referenced application. The disk is a 1.44 mb Macintosh-formatted disk. The file is stored as D5716CIP4/SEQ in text format. I hereby state that the content of the paper copy of the Sequence Listing filed as part of the above-captioned application and the enclosed computer readable copy of the Sequence Listing are the same.
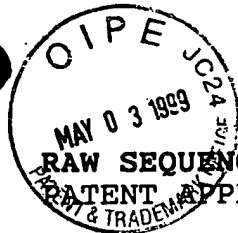
Respectfully submitted,

Date: _Apr 29, 1999_

Benjamin Aaron Adler, Ph.D., J.D.
Counsel for Applicant
Registration No. 35,423

McGREGOR & ADLER, LLP
8011 Candle Lane
Houston, Texas 77071
(713) 777-2321
BAADLER@flash.net

1761 RUSH

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/946,710

DATE: 10/02/98
TIME: 09:06:53

Input Set: H946710.RAW

> This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

Does Not Comply
Corrected Diskette Needed

new format

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2	<120>	Methods of Treating Auto-Immune Diseases Using Type One Interferons
3	<130>	D5716CIP4
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5	<141>	1997-10-08
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group all

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group 99

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APPLICANTS COPY

Please review the Sequence Listing to ensure that a corresponding explanation is presented in the "Other Information" element of each sequence which presents at least one n or Xaa.

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E-->      41    _____
W-->      42    _____
E-->      43    _____
W-->      44    _____
E-->      45    _____
W-->      46    _____
E-->      47    _____
W-->      48    _____
E-->      49    _____
W-->      50    _____
E-->      51    _____
W-->      52    _____
E-->      53    '_____"__5_____
W-->      54    _____
E-->      55    _____
W-->      56    _____
E-->      57    ____p_____$__p_____x____
W-->      58    _____
E-->      59    ____p_____$____
W-->      60    _____
E-->      61    ____p_____$__x____
W-->      62    _____
E-->      63    _____p_____*__u__v_____'_____
W-->      64    _____
E-->      65    ]___^__f__y_____ _____'_____!__)__<__=
W-->      66    _____
E-->      67    _____
W-->      68    _____
E-->      69    ____a5___=__P__Q__z_____#_
W-->      70    _____
E-->      71    _____
W-->      72    _____
E-->      73    _____'__x_
W-->      74    _____
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W-->      76    _____
E-->      77    ____p_____$__x____
W-->      78    _____
E-->      79    ____p___f__y_____ _____'_____!__)__<_
W-->      80    _____
E-->      81    _____
W-->      82    _____
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E-->      87    ____p_____$__x____
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delete these sections at end of file

delete

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E-->    95          ___ _____$__x___
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E-->    97          ___p_____
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E-->    99          _____
W-->   100
E-->   101          _____
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E-->   105          _____
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E-->   109          _____d__vgrd_____'_____(_____Times_____
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E-->   112          _._____+W30IN THE UNITED STATES PATENT AND TRADEMARK OFFICE__(_M_<_APPLICAN
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E-->   116          _ _)$ EXAMINER:__(___<_SERIAL _)3_NO.: __)_08/946710_)__ _)$_Sa_____[____
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E-->   118          n_t_____6_B@___6__ _B_o_d_y_ _T_e_x_t_____x__OJ__QJ__kH_'__@___
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E-->   122          ____!____ @_____F_o_o_t_e_r__
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E-->   124          __
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E-->   126          ____!____&_)@_!_&_____P_a_g_e_ _N_u_m_b_e_r____&_(@_1_&____L_i_n_ _ _N_u_
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E-->   130          _____)__4__Z__d__e__p_____
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E-->   132          _____
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E-->   134          _I_L_E_S_:_5_7_1_6_C_I_P_3_:_5_7_1_6_C_I_P_3_/_n_e_w_/_S_E_Q_ _L_I_S_T__H_e_i
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E-->   136          Q_ _L_I_S_T__H_e_i_d_i_ _S_t_r_u_s_e_8_H_E_I_D_I_:_F_I_L_E_S_:_H_E_I_D_I_'_S_
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delete

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E-->	140	I_P_2_/_C_P_A_:_5_7_1_6_C_I_P_3_/_C_P_A_/_n_e_w_/_S_E_Q_ _L_I_S_T_H_e_i_d_i_
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E-->	146	_5_7_1_6_C_I_P_4_:_5_7_1_6_C_I_P_4_/_n_e_w_/_S_E_Q_ _L_I_S_T_H_e_i_d_i_ _S_t
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E-->	150	_____C_o_u_r_i_e_r___3_____
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E-->	152	_____!_____
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E-->	154	_____
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E-->	156	_____2_____ _(_1_)___I_N_
W-->	157	
E-->	158	_P_o_w_e_r_M_a_c_ _U_s_e_r_H_e_i_d_i_ _S_t_r_u_s_e_____perfi
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E-->	162	Helpergopher_HelperhttpHelperhttps
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E-->	164	Helpermailto_Helpernetphone_Helpernews_Helpernntp
W-->	165	
E-->	166	Helpertelnet
W-->	167	
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E-->	180	_____
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delete

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E-->   202  _____
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E-->   204  _____
W-->   205
E-->   206  _____
W-->   207
E-->   208  _____
W-->   209
E-->   210  _____
W-->   211
E-->   212  _____
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E-->   216  _____'_'_._____+_D____'_'_._____+_____L_____h_____p_____
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delete

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E-->    260  _____
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E-->    262  _____
W-->    263
E-->    264  _____R_ _o_t_ _E_
W-->    265
E-->    266  b_l_e_____-_____1_____
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E-->    268  _____S_u_m_m_a_r_y_I_n_f_o_r_
W-->    269
E-->    270  u_m_m_a_r_y_I_n_f_o_r_m_a_t_i_o_n__8_*_H__8_____c__H__0c__<___U_
W-->    271
E-->    272  ____
W-->    273
E-->    274  _____
W-->    275
E-->    276  _____
W-->    277
E-->    278  _____
W-->    279
E-->    280  _____ _____F____Microsoft Word
W-->    281
E-->    282  _____
W-->    283
E-->    284  _____
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52	W	Invalid/Missing Amino Acid Numbering		
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54	W	Invalid/Missing Amino Acid Numbering		
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56	W	Invalid/Missing Amino Acid Numbering		
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61	E	Wrong Amino Acid Designator	_____p_____$__x____	
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65	E	Wrong Amino Acid Designator	]___^___f___y_____ _____'	
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68	W	Invalid/Missing Amino Acid Numbering		
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Line	?	Error/Warning	Original T xt
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112	E	Wrong Amino Acid Designator	_._____+W30IN THE UNITED STATES PATENT
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113	W	Invalid/Missing Amino Acid Numbering	

Line	?	Error/Warning	Original Text
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116	E	Wrong Amino Acid Designator	_ _)$ EXAMINER:__(___<_SERIAL _)3_NO.: __
116	E	Wrong Amino Acid Designator	_ _)$ EXAMINER:__(___<_SERIAL _)3_NO.: __
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118	E	Wrong Amino Acid Designator	n_t_____6_B@____6___ _B_o_d_y_ _T
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136	E	Wrong Amino Acid Designator	Q_ _L_I_S_T__H_e_i_d_i_ _S_t_r_u_s_e_8_H_

Line	?	Error/Warning	Original Text
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138	E	Wrong Amino Acid Designator	_S_:_H_E_I_D_I_'_S_ _F_I_L_E_S_:_5_7_1_6_
138	E	Wrong Amino Acid Designator	_S_:_H_E_I_D_I_'_S_ _F_I_L_E_S_:_5_7_1_6_
138	E	Wrong Amino Acid Designator	_S_:_H_E_I_D_I_'_S_ _F_I_L_E_S_:_5_7_1_6_
138	E	Wrong Amino Acid Designator	_S_:_H_E_I_D_I_'_S_ _F_I_L_E_S_:_5_7_1_6_
139	W	Invalid/Missing Amino Acid Numbering	
140	E	Wrong Amino Acid Designator	I_P_2_/_C_P_A_:_5_7_1_6_C_I_P_3_/_C_P_A_/
140	E	Wrong Amino Acid Designator	I_P_2_/_C_P_A_:_5_7_1_6_C_I_P_3_/_C_P_A_/
140	E	Wrong Amino Acid Designator	I_P_2_/_C_P_A_:_5_7_1_6_C_I_P_3_/_C_P_A_/
140	E	Wrong Amino Acid Designator	I_P_2_/_C_P_A_:_5_7_1_6_C_I_P_3_/_C_P_A_/
141	W	Invalid/Missing Amino Acid Numbering	
142	E	Wrong Amino Acid Designator	_e_w_/_S_E_Q_ _L_I_S_T_ _H_e_i_d_i_ _S_t_r
142	E	Wrong Amino Acid Designator	_e_w_/_S_E_Q_ _L_I_S_T_ _H_e_i_d_i_ _S_t_r
142	E	Wrong Amino Acid Designator	_e_w_/_S_E_Q_ _L_I_S_T_ _H_e_i_d_i_ _S_t_r
142	E	Wrong Amino Acid Designator	_e_w_/_S_E_Q_ _L_I_S_T_ _H_e_i_d_i_ _S_t_r
142	E	Wrong Amino Acid Designator	_e_w_/_S_E_Q_ _L_I_S_T_ _H_e_i_d_i_ _S_t_r
142	E	Wrong Amino Acid Designator	_e_w_/_S_E_Q_ _L_I_S_T_ _H_e_i_d_i_ _S_t_r
143	W	Invalid/Missing Amino Acid Numbering	
144	E	Wrong Amino Acid Designator	u_s_e_8_H_E_I_D_I_:_F_I_L_E_S_:_H_E_I_D_I
144	E	Wrong Amino Acid Designator	u_s_e_8_H_E_I_D_I_:_F_I_L_E_S_:_H_E_I_D_I
144	E	Wrong Amino Acid Designator	u_s_e_8_H_E_I_D_I_:_F_I_L_E_S_:_H_E_I_D_I
144	E	Wrong Amino Acid Designator	u_s_e_8_H_E_I_D_I_:_F_I_L_E_S_:_H_E_I_D_I
144	E	Wrong Amino Acid Designator	u_s_e_8_H_E_I_D_I_:_F_I_L_E_S_:_H_E_I_D_I
145	W	Invalid/Missing Amino Acid Numbering	
146	E	Wrong Nucleic Acid Designator	_5_7_1_6_C_I_P_4_:_5_7_1_6_C_I_P_4_/_n_e_
146	E	Wrong Nucleic Acid Designator	_5_7_1_6_C_I_P_4_:_5_7_1_6_C_I_P_4_/_n_e_
146	E	Wrong Nucleic Acid Designator	_5_7_1_6_C_I_P_4_:_5_7_1_6_C_I_P_4_/_n_e_
146	E	Wrong Nucleic Acid Designator	_5_7_1_6_C_I_P_4_:_5_7_1_6_C_I_P_4_/_n_e_
147	W	Invalid/Missing Amino Acid Numbering	
148	E	Wrong Amino Acid Designator	G
148	E	Wrong Amino Acid Designator	G
148	E	Wrong Amino Acid Designator	G
149	W	Invalid/Missing Amino Acid Numbering	
150	E	Wrong Amino Acid Designator	C_o_u_r_i_e_r___3
150	E	Wrong Amino Acid Designator	C_o_u_r_i_e_r___3
151	W	Invalid/Missing Amino Acid Numbering	
152	E	Wrong Amino Acid Designator	!
153	W	Invalid/Missing Amino Acid Numbering	
154	E	Wrong Amino Acid Designator	
155	W	Invalid/Missing Amino Acid Numbering	
156	E	Wrong Amino Acid Designator	
156	E	Wrong Amino Acid Designator	
156	E	Wrong Amino Acid Designator	
156	E	Wrong Amino Acid Designator	
156	E	Wrong Amino Acid Designator	
156	E	Wrong Amino Acid Designator	
156	E	Wrong Amino Acid Designator	
157	W	Invalid/Missing Amino Acid Numbering	
158	E	Wrong Amino Acid Designator	_P_o_w_e_r_M_a_c_ _U_s_e_r_H_e_i_d_i_ _S
158	E	Wrong Amino Acid Designator	_P_o_w_e_r_M_a_c_ _U_s_e_r_H_e_i_d_i_ _S
158	E	Wrong Amino Acid Designator	_P_o_w_e_r_M_a_c_ _U_s_e_r_H_e_i_d_i_ _S

Line	?	Error/Warning	Original Text
159	W	Invalid/Missing Amino Acid Numbering	
160	E	Wrong Amino Acid Designator	HelperfingerHelperftp
161	W	Invalid/Missing Amino Acid Numbering	
162	E	Wrong Amino Acid Designator	Helpergopher_HelperhttpHelperhttps
163	W	Invalid/Missing Amino Acid Numbering	
164	E	Wrong Amino Acid Designator	Helpermailto_Helpernetphone_Helpernews_He
165	W	Invalid/Missing Amino Acid Numbering	
166	E	Wrong Amino Acid Designator	Helpertelnet
167	W	Invalid/Missing Amino Acid Numbering	
168	E	Wrong Amino Acid Designator	Helpertn3270_HelperwaisHelperwhois_Helper
169	W	Invalid/Missing Amino Acid Numbering	
170	E	Wrong Amino Acid Designator	_____
171	W	Invalid/Missing Amino Acid Numbering	
172	E	Wrong Amino Acid Designator	
173	W	Invalid/Missing Amino Acid Numbering	_____
174	E	Wrong Amino Acid Designator	h_____+'_0_____
174	E	Wrong Amino Acid Designator	h_____+'_0_____
175	W	Invalid/Missing Amino Acid Numbering	
176	E	Wrong Amino Acid Designator	__|_____
176	E	Wrong Amino Acid Designator	__|_____
176	E	Wrong Amino Acid Designator	__|_____
176	E	Wrong Amino Acid Designator	__|_____
176	E	Wrong Amino Acid Designator	__|_____
176	E	Wrong Amino Acid Designator	__|_____
176	E	Wrong Amino Acid Designator	__|_____
177	W	Invalid/Missing Amino Acid Numbering	
178	E	Wrong Amino Acid Designator	___Heidi Struse__N _____2_id_____Mi
178	E	Wrong Amino Acid Designator	___Heidi Struse__N _____2_id_____Mi
178	E	Wrong Amino Acid Designator	___Heidi Struse__N _____2_id_____Mi
178	E	Wrong Amino Acid Designator	___Heidi Struse__N _____2_id_____Mi
178	E	Wrong Amino Acid Designator	___Heidi Struse__N _____2_id_____Mi
179	W	Invalid/Missing Amino Acid Numbering	
180	E	Wrong Amino Acid Designator	
181	W	Invalid/Missing Amino Acid Numbering	_____
182	E	Wrong Amino Acid Designator	
183	W	Invalid/Missing Amino Acid Numbering	_____
184	E	Wrong Amino Acid Designator	
185	W	Invalid/Missing Amino Acid Numbering	_____
186	E	Wrong Amino Acid Designator	
187	W	Invalid/Missing Amino Acid Numbering	_____
188	E	Wrong Amino Acid Designator	
189	W	Invalid/Missing Amino Acid Numbering	_____
190	E	Wrong Amino Acid Designator	
191	W	Invalid/Missing Amino Acid Numbering	_____
192	E	Wrong Amino Acid Designator	
193	W	Invalid/Missing Amino Acid Numbering	_____
194	E	Wrong Amino Acid Designator	
195	W	Invalid/Missing Amino Acid Numbering	_____
196	E	Wrong Amino Acid Designator	
197	W	Invalid/Missing Amino Acid Numbering	

Line	?	Error/Warning	Original Text
198	E	Wrong Amino Acid Designator	
199	W	Invalid/Missing Amino Acid Numbering	
200	E	Wrong Amino Acid Designator	
201	W	Invalid/Missing Amino Acid Numbering	
202	E	Wrong Amino Acid Designator	
203	W	Invalid/Missing Amino Acid Numbering	
204	E	Wrong Amino Acid Designator	
205	W	Invalid/Missing Amino Acid Numbering	
206	E	Wrong Amino Acid Designator	
207	W	Invalid/Missing Amino Acid Numbering	
208	E	Wrong Amino Acid Designator	
209	W	Invalid/Missing Amino Acid Numbering	
210	E	Wrong Amino Acid Designator	
211	W	Invalid/Missing Amino Acid Numbering	
212	E	Wrong Amino Acid Designator	
213	W	Invalid/Missing Amino Acid Numbering	
214	E	Wrong Amino Acid Designator	
215	W	Invalid/Missing Amino Acid Numbering	
216	E	Wrong Amino Acid Designator	'_'_._____+,__D____'_'_._____
217	W	Invalid/Missing Amino Acid Numbering	
218	E	Wrong Amino Acid Designator	'_____McGregor &
218	E	Wrong Amino Acid Designator	'_____McGregor &
218	E	Wrong Amino Acid Designator	'_____McGregor &
218	E	Wrong Amino Acid Designator	'_____McGregor &
218	E	Wrong Amino Acid Designator	'_____McGregor &
218	E	Wrong Amino Acid Designator	'_____McGregor &
218	E	Wrong Amino Acid Designator	'_____McGregor &
218	E	Wrong Amino Acid Designator	'_____McGregor &
218	E	Wrong Amino Acid Designator	'_____McGregor &
219	W	Invalid/Missing Amino Acid Numbering	
220	E	Wrong Amino Acid Designator	___(1)_INFORMATION FOR SEQ ID NO: 1_____
220	E	Wrong Amino Acid Designator	___(1)_INFORMATION FOR SEQ ID NO: 1_____
220	E	Wrong Amino Acid Designator	___(1)_INFORMATION FOR SEQ ID NO: 1_____
220	E	Wrong Amino Acid Designator	___(1)_INFORMATION FOR SEQ ID NO: 1_____
220	E	Wrong Amino Acid Designator	___(1)_INFORMATION FOR SEQ ID NO: 1_____
220	E	Wrong Amino Acid Designator	___(1)_INFORMATION FOR SEQ ID NO: 1_____
220	E	Wrong Amino Acid Designator	___(1)_INFORMATION FOR SEQ ID NO: 1_____
221	W	Invalid/Missing Amino Acid Numbering	
222	E	Wrong Amino Acid Designator	
223	W	Invalid/Missing Amino Acid Numbering	
224	E	Wrong Amino Acid Designator	
225	W	Invalid/Missing Amino Acid Numbering	
226	E	Wrong Amino Acid Designator	
227	W	Invalid/Missing Amino Acid Numbering	
228	E	Wrong Amino Acid Designator	
229	W	Invalid/Missing Amino Acid Numbering	
230	E	Wrong Amino Acid Designator	
231	W	Invalid/Missing Amino Acid Numbering	
232	E	Wrong Amino Acid Designator	
233	W	Invalid/Missing Amino Acid Numbering	

Line	?	Error/Warning	Original Text
234	E	Wrong Amino Acid Designator	_____
235	W	Invalid/Missing Amino Acid Numbering	
236	E	Wrong Amino Acid Designator	_____
237	W	Invalid/Missing Amino Acid Numbering	
238	E	Wrong Amino Acid Designator	_____
239	W	Invalid/Missing Amino Acid Numbering	
240	E	Wrong Amino Acid Designator	_____
241	W	Invalid/Missing Amino Acid Numbering	
242	E	Wrong Amino Acid Designator	_____
243	W	Invalid/Missing Amino Acid Numbering	
244	E	Wrong Amino Acid Designator	_____
245	W	Invalid/Missing Amino Acid Numbering	
246	E	Wrong Amino Acid Designator	_____
247	W	Invalid/Missing Amino Acid Numbering	
248	E	Wrong Amino Acid Designator	_____
249	W	Invalid/Missing Amino Acid Numbering	
250	E	Wrong Amino Acid Designator	_____
251	W	Invalid/Missing Amino Acid Numbering	
252	E	Wrong Amino Acid Designator	_____
253	W	Invalid/Missing Amino Acid Numbering	
254	E	Wrong Amino Acid Designator	_____
255	W	Invalid/Missing Amino Acid Numbering	
256	E	Wrong Amino Acid Designator	_____
256	E	Wrong Amino Acid Designator	_____
257	W	Invalid/Missing Amino Acid Numbering	
258	E	Wrong Amino Acid Designator	____
259	W	Invalid/Missing Amino Acid Numbering	
260	E	Wrong Amino Acid Designator	_____
260	E	Wrong Amino Acid Designator	_____
261	W	Invalid/Missing Amino Acid Numbering	
262	E	Wrong Amino Acid Designator	_____
263	W	Invalid/Missing Amino Acid Numbering	
264	E	Wrong Amino Acid Designator	_____
264	E	Wrong Amino Acid Designator	_____
264	E	Wrong Amino Acid Designator	_____
265	W	Invalid/Missing Amino Acid Numbering	
266	E	Wrong Amino Acid Designator	b_l_e_____-_
267	W	Invalid/Missing Amino Acid Numbering	
268	E	Wrong Amino Acid Designator	_____
269	W	Invalid/Missing Amino Acid Numbering	
270	E	Wrong Nucleic Acid Designator	u_m_m_a_r_y_I_n_f_o_r_m_a_t_i_o_n___8_*_H
270	E	Wrong Nucleic Acid Designator	u_m_m_a_r_y_I_n_f_o_r_m_a_t_i_o_n___8_*_H
271	W	Invalid/Missing Amino Acid Numbering	
272	E	Wrong Amino Acid Designator	____ _____X_____O_b_
272	E	Wrong Amino Acid Designator	____ _____X_____O_b_
273	W	Invalid/Missing Amino Acid Numbering	
274	E	Wrong Amino Acid Designator	_____
275	W	Invalid/Missing Amino Acid Numbering	
276	E	Wrong Amino Acid Designator	_____
277	W	Invalid/Missing Amino Acid Numbering	

Line	?	Error/Warning	Original Text
278	E	Wrong Amino Acid Designator	_____
279	W	Invalid/Missing Amino Acid Numbering	
280	E	Wrong Amino Acid Designator	_____ _____F____M
280	E	Wrong Amino Acid Designator	_____ _____F____M
280	E	Wrong Amino Acid Designator	_____ _____F____M
280	E	Wrong Amino Acid Designator	_____ _____F____M
281	W	Invalid/Missing Amino Acid Numbering	
282	E	Wrong Amino Acid Designator	_____
283	W	Invalid/Missing Amino Acid Numbering	
284	E	Wrong Amino Acid Designator	_____